June 23, 2003

Tony Parsley
Moorfeed Corporation
6996 East 32nd Street
Indianapolis, Indiana 46226

RE: Minor Source Operating Permit MSOP 097-17401-00499

Dear Mr. Parsley:

Enclosed is a Minor Source Operating Permit issued in approval of the Moorfeed Corporation, located at 6996 East 32nd Street, Indianapolis, Indiana 46226.

Please note that this approval has been issued with certain conditions. If the conditions are not acceptable, contact the Indianapolis Office of Environmental Services (OES) by letter or telephone within fifteen (15) days from the date of this letter. The Division will arrange a meeting to discuss the conditions in questions. If no agreement is reached, the Indianapolis Air Pollution Control Board may be petitioned within fifteen (15) days of the date of the meeting. The Board, after public notice and hearing, may sustain, modify, or rescind the conditions. Note that additional conditions may be included in the Operating Permit issued for the above equipment.

Please keep this Permit (or a copy) on file at the facility (specified in the Permit) available for inspection by the OES and IDEM, Office of Air Quality (OAQ) personnel.

If you have any questions, please contact Ms. Angelique Oliger at (317) 327-2846. Thank you for your time and cooperation in this matter.

Sincerely,

Original Signed by John B. Chavez John B. Chavez, Administrator

aco

Attachments: MSOP # 097-17401-00499

TSD

MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY and OFFICE OF ENVIRONMENTAL SERVICES

Moorfeed Corporation 6996 East 32nd Street Indianapolis, Indiana 46226-0932

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP097-17401-00499								
Issued by: Original Signed by John B. Chavez	Issuance Date: June 23, 2003 Expiration Date: June 23, 2008							
John B. Chavez, Administrator Office of Environmental Services City of Indianapolis								

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES). The information describing the source contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates two (2) paint booths and one (1) shot blast machine.

Authorized Individual: Tony Parsley

Source Address: 6996 East 32nd Street, Indianapolis, Indiana 46226 Mailing Address: 6996 East 32nd Street, Indianapolis, Indiana 46226

General Source Phone: (317) 545-7171

SIC Code: 3569, 3443, 3535, 3559, 3599

County Location: Marion

Source Location Status: Attainment for all criteria pollutants
Source Status: Minor Source Operating Permit

Minor Source, Section 112 of the Clean Air Act

Not 1 of 28 Source Categories

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (a) Two (2) paint booths, installed in 1977, identified as PB-1 and PB-2, with a combined maximum capacity to coat four and five-tenths (4.5) vibratory feeders per hour, controlled by dry filters, and exhausting to stacks PBS-1 and PBS-2.
- (b) One (1) shot blaster, installed in 1977, identified as SB, with a flow rate of 1200 pounds per hour (lbs/hr), and exhausting to stack SBS.

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Permit Reviewer: Angelique Oliger

SECTION B GENERAL CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to operate does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

B.5 Modification to Permit [326 IAC 2]

All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Local Agency Requirement

An application for an operation permit must be made ninety (90) days before start up to:

City of Indianapolis Office of Environmental Services (OES) 2700 South Belmont Avenue Indianapolis, Indiana 46221

The operation permit issued by the City of Indianapolis, Office of Environmental Services (OES), 2700 South Belmont Avenue, Indianapolis, Indiana 46221 shall contain as a minimum the conditions in the Operation Conditions section of this permit.

B.7 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of

each year to:

Compliance Branch, Office of Air Quality Indiana Department of Environmental Management 100 North Senate Avenue, P.O. Box 6015 Indianapolis, IN 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and the City of Indianapolis, OES on or before the date it is due.

B.8 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each emissions unit:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

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Permit Reviewer: Angelique Oliger

(c) A copy of the PMP's shall be submitted to IDEM, OAQ, and City of Indianapolis, OES upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and City of Indianapolis, OES. IDEM, OAQ, and City of Indianapolis, OES may require the Permittee to revise its PMP whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or City of Indianapolis, OES makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or City of Indianapolis, OES within a reasonable time.

B.9 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

City of Indianapolis Office of Environmental Services Air Quality Management Section, Permits 2700 South Belmont Avenue Indianapolis, Indiana 46221

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.10 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, OES, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

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Permit Reviewer: Angelique Oliger

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.11 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)]:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch and the City of Indianapolis, OES, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, and the City of Indianapolis, OES shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

B.12 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM and OES, the fact that continuance of this permit is not consistent with purposes of this article.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.4 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or

decreases by at least twenty percent (20%); or

- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date:
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management Asbestos Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control
 The Permittee shall comply with the applicable emission control procedures in 326 IAC
 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements
 are applicable for any removal or disturbance of RACM greater than three (3) linear feet
 on pipes or three (3) square feet on any other facility components or a total of at least
 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector
 The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator,
 prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to
 thoroughly inspect the affected portion of the facility for the presence of asbestos. The
 requirement that the inspector be accredited, pursuant to the provisions of 40 CFR 61,
 Subpart M, is federally enforceable.

Testing Requirements

C.5 Performance Testing [326 IAC 3-6]

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14 days) prior to the actual date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and the City of Indianapolis, OES not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, and the City of Indianapolis, OES, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.6 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

Compliance Monitoring Requirements

C.7 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.8 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to

the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.9 Compliance Response Plan - Preparation and Implementation

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ, and the City of Indianapolis, OES upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.

- (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

Record Keeping and Reporting Requirements

C.10 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.11 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or the City of Indianapolis, OES makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or the City of Indianapolis, OES within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.

C.12 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and the City of Indianapolis, OES on or before the date it is due.
- (c) Unless otherwise specified in this permit, any reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description: Two (2) paint booths, installed in 1977, identified as PB-1 and PB-2, with a combined maximum capacity to coat four and five-tenths (4.5) vibratory feeders per hour, and exhausting to stacks PBS-1 and PBS-2.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

- D.1.2 Particulate emission limitations, work practices, and control technologies [326 IAC 6-3-2(d)]
 Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable particulate matter emissions rate from the paint booths, PB-1 and PB-2 shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, subject to the following:
 - (a) The source shall operate the control device in accordance with the manufacturer's specifications.
 - (b) If the overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

The source complies with 326 IAC 6-3-2(d) through the use of a dry particulate filters on both PB-1 and PB-2.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description: One (1) shot blaster, installed in 1977, identified as SB, with a flow rate of 1200 pounds per hour (lbs/hr), and exhausting to stack SBS.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.2.1 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

D.2.2 Particulate emission limitations, work practices, and control technologies [326 IAC 6-3-2(e)]

Pursuant to 6-3-2(e) (Particulate emission limitations, work practices, and control technologies), interpolation of the data for the shotblaster, SB, shall be accomplished by use of the equation for the process weight rate up to sixty thousand (60,000) pounds per hour:

$$E = 4.10 P^{0.67}$$
 where $E =$ rate of emission in pounds per hour and $P =$ process weight rate in tons per hour

Therefore, PM emissions shall not exceed 2.9 pounds per hour for SB.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE BRANCH and

INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES

MINOR SOURCE OPERATING PERMIT ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Moorfeed Corporati	ion
Address:	6996 East 32 nd Stree	et .
City:	Indianapolis, Indian	na 46226-0932
Phone #:	(317) 545-7171	
MSOP #:	097-17401-00499	
	oorfeed Corporation is oorfeed Corporation is	 9 still in operation. 9 no longer in operation. 9 in compliance with the requirements of MSOP 097-17401-00499. 9 not in compliance with the requirements of MSOP 097-17401-00499.
Authorized Individu	ıal (typed):	
Title:		
Signature:		
Date:		
		which the source is not in compliance, provide a narrative e compliance and the date compliance was, or will be
Noncompliance:		

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY FAX NUMBER - 317 233-5967

	used to report malfunctions applicable talify for the exemption under 326 IAC 1-6		
THIS FACILITY MEETS THE APPLICABILITY PARTICULATE MATTER?, 25 TONS/YEAF 25 TONS/YEAF ?, 25 TONS/YEAF ?, 25 TONS/YEAF REDUCED SULFUR CARBON MONOXIDE?, 10 TONS/YEAF COMBINATION HAZARDOUS AIR POLLUTANT ELEMENTAL LEAD?, OR IS A SOURCE MALFUNCTIONING CONTROL EQUIPMENT APPLICABLE LIMITATION	EAR SULFUR DIOXIDE ?, 25 TON R HYDROGEN SULFIDE ?, 25 TON R COMPOUNDS ?, 25 TONS/YEAR R ANY SINGLE HAZARDOUS AIR POLLUNT ?, 1 TON/YEAR LEAD OR LEAD E LISTED UNDER 326 IAC 2-5.1-3(2) ?	IS/YEAR NITROGEN OF SYEAR TOTAL REDU FLUORIDES ?, 25 TOIN COMPOUNDS MEAS EMISSIONS FROM THE PROPUSSIONS FROM THE PROPUSSIONS FROM TOTAL PROPUSSIONS FROM THE PROPUSSION THE PRO	DXIDES?, ICED SULFUR 100TONS/YEAR NS/YEAR ANY URED AS DM
THIS MALFUNCTION RESULTED IN A VIOLA PERMIT LIMIT OF	ATION OF: 326 IAC OR, PERMIT	CONDITION #	_ AND/OR
THIS INCIDENT MEETS THE DEFINITION OF	F 'MALFUNCTION' AS LISTED ON REVER	RSE SIDE ? Y	N
THIS MALFUNCTION IS OR WILL BE LONGE	ER THAN THE ONE (1) HOUR REPORTIN	G REQUIREMENT?	Y N
COMPANY:	PHONE	: NO. ()	
COMPANY: LOCATION: (CITY AND COUNTY) PERMIT NO AFS PLANT	ID: AFS POINT ID: _	IN	ISP:
CONTROL/PROCESS DEVICE WHICH MALFU	NCTIONED AND REASON:		
DATE/TIME MALFUNCTION STARTED:/	// 19		AM / PM
ESTIMATED HOURS OF OPERATION WITH M.			
DATE/TIME CONTROL EQUIPMENT BACK-IN	N SERVICE/ 19	AM/PM	
TYPE OF POLLUTANTS EMITTED: TSP, PM	1-10, SO2, VOC, OTHER:		
ESTIMATED AMOUNT OF POLLUTANT EMITT	ED DURING MALFUNCTION:		
MEASURES TAKEN TO MINIMIZE EMISSIONS	:		
REASONS WHY FACILITY CANNOT BE SHUT	DOWN DURING REPAIRS:		
CONTINUED OPERATION REQUIRED TO PROCONTINUED OPERATION NECESSARY TO PROCONTINUED OPERATION NECESSARY TO PRINTERIM CONTROL MEASURES: (IF APPLICA	REVENT INJURY TO PERSONS:		
MALFUNCTION REPORTED BY:(SIG	TITLE:		
MALFUNCTION RECORDED BY:*SEE PAGE 2	DATE:	_TIME:	

applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

*Essential services are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

Indiana Department of Environmental Management Office of Air Quality and

City of Indianapolis Office of Environmental Services

Addendum to the Technical Support Document for Minor Source Operating Permit (MSOP)

Source Background and Description

Source Name: Moorfeed Corporation

Source Location: 6996 East 32nd Street, Indianapolis, Indiana 46226

County: Marion

SIC Code: 3569, 3443, 3535, 3559, 3599

Operation Permit No.: 097- 17401-00499
Permit Reviewer: Angelique Oliger

On May 9, 2003, the Office of Environmental Services (OES) had a notice published in the Indianapolis Star Newspaper, Indianapolis, Indiana, stating that Moorfeed Corporation had applied for a Minor Source Operating Permit (MSOP) to operate two (2) paint booths and a shot blast machine. The notice also stated that OES and Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The following changes, to the draft MSOP, will be made. The TSD will remain as it originally appeared when published. These changes have no effect on the limited potential to emit (PTE) for this source. OES and OAQ prefer that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the permit has been published are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

Upon further review, the OES has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has been modified to reflect these changes.

1. Condition C.11 <u>Emissions Statement</u>. The source is not required to submit an annual emissions statement, because 326 IAC 2-6 does not apply to the source. The permit has been updated to include the correction:

C.11 Emission Statement [326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate estimated actual emissions of other regulated pollutants (as defined by 326 IAC 2-7-1) from the source, for purposes of Part 70 fee assessment.

(b	The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:
	Indiana Department of Environmental Management Technical Support and Modeling Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015
	and and
	City of Indianapolis Office of Environmental Services Air Quality Management Section, Permits 2700 South Belmont Avenue Indianapolis, Indiana 46221
(c	The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.
	ne submittal by the Permittee does require the certification by the "authorized individual" as stringed by 326 IAC 2-1.1-1.

Page 2 of 2 M097-17401-00499

Indiana Department of Environmental Management Office of Air Quality and City of Indianapolis Office of Environmental Services

Technical Support Document (TSD) for a Minor Source Operating Permit

Source Background and Description

Source Name: Moorfeed Corporation

Source Location: 6996 East 32nd Street, Indianapolis, Indiana 46226

County: Marion

SIC Code: 3569, 3443, 3535, 3559, 3599

Operation Permit No.: 097- 17401-00499
Permit Reviewer: Angelique Oliger

The Office of Environmental Services (OES) has reviewed an application from Moorfeed Corporation relating to the construction and operation of two (2) paint booths and one (1) shot blast machine.

Unpermitted Emission Units and Pollution Control Equipment

The source consists of the following unpermitted emission units and pollution control devices:

- (a) Two (2) paint booths, installed in 1977, identified as PB-1 and PB-2, with a combined maximum capacity to coat four and five-tenths (4.5) vibratory feeders per hour, controlled by dry filters, and exhausting to stacks PBS-1 and PBS-2.
- (b) One (1) shot blaster, installed in 1977, identified as SB, with a flow rate of 1200 pounds per hour (lbs/hr), and exhausting to stack SBS.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Length x Width (inches)		Temperature (°F)
PBS-1	Paint Booth 1	33	30		18,000	ambient
PBS-2	Paint Booth 2	33	30		18,000	ambient
SBS	Shot Blast Machine	8		27 x 33	700	ambient

Existing Approvals

No previous approvals have been issued to this source.

Enforcement Issue

- (a) IDEM and OES are aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled *Unpermitted Emission Units and Pollution Control Equipment*.
- (b) IDEM and OES are reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Recommendation

The staff recommends to the Administrator that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on August 27, 1997.

Emission Calculations

See Appendix A (two pages) of this document for detailed emissions calculations.

Potential To Emit of Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)
PM	56.78
PM-10	56.78
SO ₂	negligible
VOC	6.58
СО	negligible
NO _x	negligible
HAPs	negligible

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants are less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of particulate matter is greater than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (d) Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

County Attainment Status

The source is located in Marion County.

PSD and Emission Offset applicability.

Pollutant	Status
PM-10	attainment
SO ₂	maintenance attainment
NO_2	attainment
Ozone	maintenance attainment
СО	attainment
Lead	unclassifiable

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Marion County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Fugitive Emissions
 Since this type of operation is not one of the 28 listed source categories under 326 IAC
 2-2, or 326 IAC 2-3 and since there are no applicable New Source Performance
 Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of

Source Status

New Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	56.78
PM10	56.78
SO ₂	negligible
VOC	6.58
CO	negligible
NO _x	negligible
Single HAP	negligible
Combination HAPs	negligible

(a) This new source is not a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

(b) These emissions are based on the information provided in the source's operating permit application.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source has submitted a Preventive Maintenance Plan (PMP) on August 27, 1997. This PMP has been verified to fulfill the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements)

This source was an existing minor source when it was built prior to 1980 and is not one (1) of the twenty-eight (28) listed source categories. There have been no modifications since the source was built. The potential to emit each criteria pollutant from the entire source is less than 250 tons per year. Therefore, this source is an existing minor source and the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements) are not applicable.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants)

This source is not subject to 326 IAC 2-4.1, because it is not a major source of hazardous air pollutants, as defined by 40 CFR 63.

326 IAC 2-6 (Emission Reporting)

This source is located in Marion and the potential to emit any regulated pollutant is less than ten (10) tons per year. Therefore, 326 IAC 2-6 does not apply.

The source will be required to annually submit a statement of the actual emissions of all federally regulated pollutants from the source for the purpose of fee assessment.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-1-2 (Particulate Emissions Limitations)

This rule does not apply to this source because the potential to emit of particulate is less than one hundred (100) tons per year, and it has actual emissions of less than ten (10) tons per year, and it is not a specifically listed source in 326 IAC 6-1-12.

State Rule Applicability - Individual Facilities

326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies)

The paint booth are subject to 326 IAC 6-3-2(d) (Particulate emission limitations, work practices, and control technologies), because they are spray coating operations that use more than five (5) gallons per day. Pursuant to this rule, the allowable particulate matter emissions rate from the paint booths, PB-1 and PB-2 shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, subject to the following:

- (a) The source shall operate the control device in accordance with the manufacturer's specifications.
- (b) If the overspray is visibly detected at the exhaust or accumulates on the ground, the source shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the source shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

The source complies with 326 IAC 6-3-2(d) through the use of a dry particulate filters on both PB-1 and PB-2.

326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies)

Pursuant to 6-3-2(e) (Particulate emission limitations, work practices, and control technologies), interpolation of the data for the shotblaster, SB, shall be accomplished by use of the equation for the process weight rate up to sixty thousand (60,000) pounds per hour:

$$E = 4.10 P^{0.67}$$
 where $E =$ rate of emission in pounds per hour and $P =$ process weight rate in tons per hour

Therefore, PM emissions shall not exceed 2.9 pounds per hour for SB.

The two (2) paint booths are not subject to 326 IAC 8-2 (Surface Coating Emission Limitations), because they existed as of January 1, 1980, and they have the potential to emit less than one hundred (100) tons per year of VOC.

Conclusion

The construction and operation of two (2) paint booths and one (1) shot blast machine shall be subject to the conditions of the attached proposed Minor Source Operating Permit 097-17401-00499.

Appendix A: Emission Calculations

Spray Paint Booth (VOCs)

Company Name: Moorfeed Corportation

Address City IN Zip: 6996 East 32nd Street, Indianapolis, Indiana 46226-0932

CP: 097-17401-00499
Reviewer: Angelique Oliger

Date: 24-Jun-03

Material	Density (Lb/Gal)	Weight % Volatile (H20& Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	Ib VOC /gal solids	Transfer Efficiency
F75AC1	7.83	60.90%	0.0%	60.9%	0.0%	26.90%	0.07000	4.500	4.77	4.77	1.50	36.05	6.58	4.22	17.73	0%

State Potential Emissions Add worst case coating to all solvents 1.50 36.05 6.58 4.22

VOC lbs/day 36.05

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)

Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)

Total = Worst Coating + Sum of all solvents used

Appendix A: Emission Calculations

Abrasive Blasting

Company Name: Moorfeed Corporation

Address City IN Zip: 6996 East 32nd Street, Indianapolis, Indiana 26932

MSOP: 097-17401-00499
Reviewer: Angelique Oliger
Date: April 4, 2003

Table 1 - Emission Factors for Abrasives

	Emission Factor					
Abrasive	Ib PM / Ib abrasive	lb PM10 / lb PM				
Other	0.010	·				

Table 2 - Density of Abrasives (lb/ft3)

Abrasive	Density (lb/ft3)
Red Garnate	250

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

		١	Nozzle Pressu	e (psig)				
Internal diameter, in	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

Calculations

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)

FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 = D = Density of abrasive (lb/ft3) From Table 2 =

D1 = Density of sand (lb/ft3) =

ID = Actual nozzle internal diameter (in) =

ID1 = Nozzle internal diameter (in) from Table 3 =

1265
250
250

0.487 0.5

Flow Rate (FR) (lb/hr) =

1200.075 per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =

FR = Flow Rate (lb/hr) =

w = fraction of time of wet blasting =

N = number of nozzles =

0.010		
1200.075		
0 %		
1		

Uncontrolled Emissions =	12.00 lb/hr
	52.56 ton/yr

METHODOLOGY

Emission Factors from Stappa Alapco, Section 3 "Abrasive Blasting" Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs Flow Rate (FR) (lb/hr) = FR1 x (lD/lD1)2 x (D/D1) $E = EF \ x \ FR \ x \ (1-w/200) \ x \ N$ w should be entered in as a whole number (if w is 50%, enter 50)